

McDONNELL DOUGLAS CORPORATION  
ST. LOUIS, MISSOURI  
TRACTS I AND II

**ATTACHMENT A (continued)**

**Form OP - D05 Compliance Determination Methods**

**10 CSR 10-5.030 Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used For Indirect Heating**

“Existing” Sources (continued):

Similarly, if the boilers and other miscellaneous equipment are operated on fuel oil, the same compliance approach applies. The following table (Table D05-5) demonstrates via comparison that the PM emission limit determined for McDonnell Douglas’ “existing” sources is higher than the AP-42 emission rate for fuel oil (and natural gas) combustion. Thus, all “existing” fuel oil combustion units will also be in compliance at all times.

*Coal-Fired Boilers*

*(CS-005-02 thru CS-005-04)*

*(Emission factors developed from actual stack test data were used as the method to demonstrate a “one-time” compliance determination with the emission limits developed per 10 CSR 10-5.030.)*

Table D05-5 compares the PM emission rate limit calculated by the above equation with the PM emission rate determined by an actual stack test performed on three coal-fired boilers at McDonnell Douglas. Since the stack test results are lower than the PM limit of this rule, the three boilers are in compliance.

McDONNELL DOUGLAS CORPORATION  
ST. LOUIS, MISSOURI  
TRACTS I AND II

**ATTACHMENT A (continued)**

**Form OP - D05 Compliance Determination Methods**

**10 CSR 10-5.030 Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used For Indirect Heating**

10 CSR 10-5.030(3)(B)2.

For "New" Sources:

*Boilers, Space Heaters, and Misc. Combustion Equipment*

*(NG and FO)*

*(The AP-42 emission factors were used as the method to demonstrate a "one-time" compliance determination with the PM emission limits developed per 10 CSR 10-5.030.)*

Per 10 CSR 10-5.030 (3)(B)2., each "new" indirect heating source has a PM emission limit determined by  $E=0.80 Q^{-0.301}$ , where Q= the total heat input of all "new" and "existing" indirect heating sources. The total Q for McDonnell Douglas' "new" and "existing" indirect heating sources is 1,050 MMBtu/hr and the calculated PM emission limit is 0.10 lb/MMBtu. Compliance of each source with this limit is demonstrated in Table D05-5 using the same approach described above.

*Refuse Fired Boilers*

*(CS-101-05 and CS-101-06)*

*(Emission factors developed from actual stack test data were used as the method to demonstrate a "one-time" compliance determination with the emission limits developed per 10 CSR 10-5.030.)* For the two Refuse Fired Boilers listed in Table D05-5, the PM emission rate was determined by an actual stack test. (This stack test was originally performed to demonstrate compliance with the PM emission limit in 40 CFR Part 60, NSPS.

McDONNELL DOUGLAS CORPORATION  
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TRACTS I AND II

**ATTACHMENT A (continued)**

**Form OP - D05 Compliance Determination Methods**

**10 CSR 10-5.030 Maximum Allowable Emission of Particulate Matter From Fuel Burning Equipment Used For Indirect Heating**

For "New" Sources (continued):

*Refuse Fired Boilers*

Subpart E.) The PM emission rate from each of the two Refuse Fired Boilers is 0.08 lb/MMBtu, which is less than the calculated limit of 0.10 lb/MMBtu.

Additional monitoring or record keeping (for all indirect heating sources) beyond this initial demonstration is not necessary on the part of the facility.

MCDONNELL DOUGLAS CORPORATION

St. Louis, Missouri

Tracts I and II

Table D05-5: COMPLIANCE DETERMINATION WITH 10 CSR 10-5.030,  
Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating

EIQ POINT NO.	EMISSION UNIT NUMBER	DESCRIPTION	FUEL TYPE	HEAT INPUT RATING (Q) (MMBTU/HR)		PM EMISSION RATE LIMIT (lb/MMBTU)		AP-42 Emission Factor for PM Natural Gas (lb/MMBTU)	AP-42 Emission Factor for PM Fuel Oil (lb/MMBTU)	AP-42 Emission Factor for PM Propane (lb/MMBTU)	Stack Test Emission Factor (lb/MMBTU)
				Existing Source (Installed before Feb. 15, 1979)	New Source (Installed after Feb. 15, 1979)	Existing Sources	New Sources				
						$E=1.09Q^{0.259}$	$E=0.80Q^{0.301}$				
CS-005-02	CS-005-02	Coal fired boiler (operating permit #5367)	Coal	---	76.40	---	0.10	---	---	---	0.025
CS-005-03	CS-005-03	Coal fired boiler (operating permit #5367)	Coal	---	76.40	---	0.10	---	---	---	0.025
CS-005-04	CS-005-04	Coal fired boiler (operating permit #5367)	Coal	---	76.40	---	0.10	---	---	---	0.025
CS-005-05	CS-005-05	Keeler boiler (operating permit #3124)	Natural Gas	77.00	---	0.21	---	0.014	---	---	---
CS-STL-01	CS-STL-01A	5 natural gas space heaters (0.5 MMBtu/hr ea.)	Natural Gas	---	2.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	4 natural gas space heaters (0.075 MMBtu/hr ea.)	Natural Gas	---	0.30	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	---	0.08	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas heating unit	Natural Gas	---	1.25	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.06	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.10	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	21 natural gas space heaters in building (0.5 MMBtu/hr ea.)	Natural Gas	---	10.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-025-01	Natural gas boiler (operating permit # 4373)	Natural Gas	8.50	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	10.00	---	0.10	0.014	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.50	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 3131)	Natural Gas	4.20	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 3131)	Natural Gas	4.20	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.18	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 3132)	Natural Gas	6.74	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 3132)	Natural Gas	6.74	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 3133)	Natural Gas	3.16	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 3133)	Natural Gas	3.16	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	0.20	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	0.20	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 3319)	Natural Gas	---	1.20	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 3319)	Natural Gas	---	1.20	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Sellers hot water boiler	Natural Gas	3.60	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Sellers hot water boiler	Natural Gas	3.60	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01C	Propane space heater	Propane	0.50	---	0.21	---	---	---	0.004	---
CS-STL-01	CS-STL-01C	Propane space heater	Propane	0.11	---	0.21	---	---	---	0.004	---
CS-STL-01	CS-STL-01C	Propane space heater	Propane	0.11	---	0.21	---	---	---	0.004	---
CS-STL-01	CS-STL-01C	Propane space heater	Propane	0.11	---	0.21	---	---	---	0.004	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 5488)	Natural Gas	---	3.00	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.06	---	0.10	0.011	---	---	---

MCDONNELL DOUGLAS CORPORATION

St. Louis, Missouri

## **Tracts I and II**

Table D05-5: COMPLIANCE DETERMINATION WITH 10 CSR 10-5.030,  
Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating

Table D05-5: COMPLIANCE DETERMINATION WITH 10 CSR 10-5.030, Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating										
EIQ OINT NO.	EMISSION UNIT NUMBER	DESCRIPTION	FUEL TYPE	HEAT INPUT RATING (Q) (MMBTU/HR)		PM EMISSION RATE LIMIT (lb/MMBTU)		AP-42 Emission Factor for PM Natural Gas (lb/MMBTU)	AP-42 Emission Factor for PM Fuel Oil (lb/MMBTU)	AP-42 Emission Factor for PM Propane (lb/MMBTU)
				Existing Source (Installed before Feb. 15, 1979)	New Source (Installed after Feb. 15, 1979)	Existing Sources	New Sources			
						E=1.09Q <sup>0.259</sup>	E=0.80Q <sup>0.301</sup>			
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	---	0.70	---	0.10	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	---	0.70	---	0.10	0.012	---	---
CS-STL-01	CS-066-01	Natural gas boiler (operating permit # 3210)	Natural Gas	6.30	---	0.21	---	0.012	---	---
CS-STL-01	CS-066-02	Natural gas boiler (operating permit # 3210)	Natural Gas	6.30	---	0.21	---	0.012	---	---
CS-STL-01	CS-066-03	Natural gas boiler (operating permit # 3210)	Natural Gas	6.30	---	0.21	---	0.012	---	---
CS-STL-01	CS-066-04	Natural gas boiler (operating permit # 3210)	Natural Gas	3.10	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	3.10	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	3.10	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	3.10	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	3.10	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	3.10	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	2.80	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	2.80	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	2.80	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	1.60	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	1.60	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	1.60	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	1.60	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	1.60	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	1.60	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	1.60	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas unit heater	Natural Gas	1.60	---	0.21	---	0.012	---	---
CS-STL-01	CS-067-01	Natural gas boiler	Natural Gas	---	2.09	---	0.10	0.012	---	---
CS-STL-01	CS-067-02	Natural gas boiler	Natural Gas	---	2.09	---	0.10	0.012	---	---
CS-101-01	CS-101-01	Natural gas boiler (operating permit # 3078)	Natural Gas	52.00	---	0.21	---	0.014	---	---
CS-101-02	CS-101-02	Natural gas boiler (operating permit # 3078)	Natural Gas	52.00	---	0.21	---	0.014	---	---
CS-101-03	CS-101-03	Natural gas boiler (operating permit # 3078)	Natural Gas	20.80	---	0.21	---	0.014	---	---
CS-101-04	CS-101-04	Natural gas boiler (operating permit # 3078)	Natural Gas	20.80	---	0.21	---	0.014	---	0.084
CS-101-05	CS-101-05	Refuse-fired boiler #1: Refuse (operating permit # 5229)	Refuse	---	54.75	---	0.10	---	---	0.084
CS-101-05	CS-101-05	Refuse-fired boiler #1: Primary natural gas auxiliary	Natural Gas	---	0.80	---	0.10	---	---	0.084
CS-101-05	CS-101-05	Refuse-fired boiler #1: Secondary natural gas auxiliary	Natural Gas	---	2.50	---	0.10	---	---	0.084
CS-101-06	CS-101-06	Refuse-fired boiler #2: Refuse (operating permit # 5230)	Refuse	---	54.75	---	0.10	---	---	0.084
CS-101-06	CS-101-06	Refuse-fired boiler #2: Primary natural gas auxiliary	Natural Gas	---	0.80	---	0.10	---	---	0.084
CS-101-06	CS-101-06	Refuse-fired boiler #2: Secondary natural gas auxiliary	Natural Gas	---	2.50	---	0.10	---	---	0.084
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	1.00	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	1.00	---	0.21	---	0.011	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	0.20	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater (Steam Jenny)	Natural Gas	1.10	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 5284)	Natural Gas	---	3.40	---	0.10	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 5285)	Natural Gas	---	3.40	---	0.10	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas Stone Johnson boiler	Natural Gas	---	3.40	---	0.10	0.014	---	---
CS-102-01	CS-102-01	Natural gas boiler (operating permit # 3005)	Natural Gas	79.60	---	0.21	---	0.014	---	---
CS-102-02	CS-102-02	Natural gas boiler (operating permit # 3079)	Natural Gas	33.48	---	0.21	---	0.014	---	---
CS-102-03	CS-102-03	Natural gas door heater	Natural Gas	25.20	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas door heater	Natural Gas	1.88	---	0.21	---	0.012	---	---
CS-STL-01	CS-STL-01A	Natural gas door heater	Natural Gas	1.88	---	0.21	---	0.012	---	---

MCDONNELL DOUGLAS CORPORATION

St. Louis, Missouri

Tracts I and II

Table D05-5: COMPLIANCE DETERMINATION WITH 10 CSR 10-5.030,  
Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating

EIQ POINT NO.	EMISSION UNIT NUMBER	DESCRIPTION	FUEL TYPE	HEAT INPUT RATING (Q) (MMBTU/Hr)		PM EMISSION RATE LIMIT (lb/MMBTU)		AP-42 Emission Factor for PM Natural Gas (lb/MMBTU)	AP-42 Emission Factor for PM Fuel Oil (lb/MMBTU)	AP-42 Emission Factor for PM Propane (lb/MMBTU)	Stack Test Emission Factor (lb/MMBTU)
				Existing Source (Installed before Feb. 15, 1979)	New Source (Installed after Feb. 15, 1979)	Existing Sources	New Sources				
CS-STL-01	CS-STL-01A	Natural gas door heater	Natural Gas	1.88	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.80	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas door heater	Natural Gas	0.90	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.80	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater - chiller room	Natural Gas	0.10	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.90	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.50	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.90	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater (new)	Natural Gas	0.90	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater (new)	Natural Gas	0.10	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater - west chiller room	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas air preheater (postheater)	Natural Gas	8.40	---	0.10	---	0.012	0.004	---	---
CS-STL-01	CS-STL-01C	Propane test rig	Propane	---	0.0001	---	0.10	---	---	0.014	0.014
CS-STL-01	CS-STL-01C	Propane test rig	Natural Gas	10.46	---	0.21	---	0.014	0.014	0.014	0.014
CS-110-01	CS-110-01	Natural gas/Fuel oil boiler (operating permit # 4709)	Natural Gas	10.46	---	0.21	---	0.014	0.014	0.014	0.014
CS-110-02	CS-110-02	Natural gas/Fuel oil boiler (operating permit # 4709)	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.30	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.60	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	16.80	---	0.10	0.014	0.014	0.014	0.014
CS-111-01	CS-111-01	Natural gas/Fuel oil boiler (operating permit # 5287)	Natural Gas	---	16.80	---	0.10	0.014	0.014	0.014	0.014
CS-111-02	CS-111-02	Natural gas/Fuel oil boiler (operating permit # 5287)	Natural Gas	---	6.30	---	0.10	0.012	0.012	0.012	0.012
CS-STL-01	CS-STL-01A	Natural gas/Fuel oil boiler (operating permit # 5288)	Natural Gas	1.95	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 4288)	Natural Gas	0.03	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	---	1.70	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	8.40	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 4903)	Natural Gas	8.37	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 4058)	Natural Gas	8.37	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas boiler (operating permit # 4058)	Natural Gas	1.53	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas furnace	Natural Gas	2.32	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas furnace	Natural Gas	0.27	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	0.25	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	0.50	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.50	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.27	---	0.21	---	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	0.50	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.50	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas space heater	Natural Gas	0.50	---	0.21	---	0.012	---	---	---

MCDONNELL DOUGLAS CORPORATION

St. Louis, Missouri

Tracts I and II

Table D05-5: COMPLIANCE DETERMINATION WITH 10 CSR 10-5.030,  
Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating

EIQ POINT NO.	EMISSION UNIT NUMBER	DESCRIPTION	FUEL TYPE	HEAT INPUT RATING (Q) (MMBTU/IHR)		PM EMISSION RATE LIMIT (lb/MMBTU)		AP-42 Emission Factor for PM Natural Gas (lb/MMBTU)	AP-42 Emission Factor for PM Fuel Oil (lb/MMBTU)	AP-42 Emission Factor for PM Propane (lb/MMBTU)	Stack Test Emission Factor (lb/MMBTU)
				Existing Source (Installed before Feb. 15, 1979)	New Source (Installed after Feb. 15, 1979)	Existing Sources	New Sources				
CS-STL-01	CS-221-01	Natural gas boiler (operating permit # 4103)	Natural Gas	3.35	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-221-02	Natural gas boiler (operating permit # 4103)	Natural Gas	3.35	---	0.21	---	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas water heater	Natural Gas	---	0.05	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Hastings make-up air heater	Natural Gas	---	4.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas RTU #1 unit heater	Natural Gas	---	4.78	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas McQuay unit heater	Natural Gas	---	1.75	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas McQuay unit heater	Natural Gas	---	1.75	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas RTU #4 unit heater	Natural Gas	---	3.99	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas RTU #5 unit heater	Natural Gas	---	3.99	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas RTU #6 unit heater	Natural Gas	---	3.99	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas RTU #7 unit heater	Natural Gas	---	3.99	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas RTU #8 unit heater	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas direct vent boiler	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas direct vent boiler	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas direct vent boiler	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas direct vent boiler	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas direct vent boiler	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas direct vent boiler	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas direct vent boiler	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane unit heater	Natural Gas	---	0.24	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Reznor unit heater	Natural Gas	---	0.50	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Sterling unit heater	Natural Gas	---	0.20	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas McQuay unit heater	Natural Gas	---	0.64	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane unit heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane unit heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane space heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas vent heater	Natural Gas	---	0.04	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas vent heater	Natural Gas	---	0.04	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas hot water heater	Natural Gas	---	0.37	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Weather-Rite make-up air heater	Natural Gas	---	4.32	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas King unit heater	Natural Gas	---	1.25	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas King unit heater	Natural Gas	---	1.25	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas King unit heater	Natural Gas	---	1.25	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas King unit heater	Natural Gas	---	1.25	---	0.10	0.012	---	---	---

MCDONNELL DOUGLAS CORPORATION

St. Louis, Missouri

Tracts I and II

Table D05-5: COMPLIANCE DETERMINATION WITH 10 CSR 10-5.030,  
Maximum Allowable Emission of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating

EIQ POINT NO.	EMISSION UNIT NUMBER	DESCRIPTION	FUEL TYPE	HEAT INPUT RATING (Q) (MMBTU/HR)		PM EMISSION RATE LIMIT (lb/MMBTU)		AP-42 Emission Factor for PM Natural Gas (lb/MMBTU)	AP-42 Emission Factor for PM Fuel Oil (lb/MMBTU)	AP-42 Emission Factor for PM Propane (lb/MMBTU)	Stack Test Emission Factor (lb/MMBTU)
				Existing Source (Installed before Feb. 15, 1979)	New Source (Installed after Feb. 15, 1979)	Existing Sources	New Sources				
CS-STL-01	CS-STL-01A	Natural gas King unit heater	Natural Gas	---	1.25	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Sterling space heater	Natural Gas	---	0.25	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Bryant space heater	Natural Gas	---	0.25	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Bryant space heater	Natural Gas	---	0.25	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Bryant space heater	Natural Gas	---	0.25	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Bryant space heater	Natural Gas	---	0.25	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Bryant space heater	Natural Gas	---	0.25	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Bryant space heater	Natural Gas	---	0.34	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Tappan space heater	Natural Gas	---	0.25	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Lennox space heater	Natural Gas	---	0.12	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Reznor space heater	Natural Gas	---	0.12	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Reznor space heater	Natural Gas	---	0.12	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Reznor space heater	Natural Gas	---	0.12	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Reznor space heater	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane unit heater	Natural Gas	---	0.15	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Trane unit heater	Natural Gas	---	0.28	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Bryant unit heater	Natural Gas	---	0.24	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas King unit heater	Natural Gas	---	0.39	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas King unit heater	Natural Gas	---	0.40	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Modine unit heater	Natural Gas	---	0.49	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas King unit heater	Natural Gas	---	0.11	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Modine space heater	Natural Gas	---	0.11	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Modine space heater	Natural Gas	---	0.08	---	0.10	0.011	---	---	---
CS-STL-01	CS-STL-01A	Natural gas State water heater	Natural Gas	---	2.10	---	0.10	0.012	---	---	---
CS-STL-01	CS-STL-01A	Natural gas Raypack boiler	Natural Gas	---	11.50	---	0.10	0.012	---	---	---
Total				541.59	508.13						

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## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. CS-005-02, CS-005-03 and CS-005-04	Emission Unit No. CS-005-02, CS-005-03 and CS-005-04	Applicable Requirement: 10 CSR 10-6.060 and St. Louis County-APC Code, Chapter 612-Section 612.110, Construction Permit #1321		

## Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

<input checked="" type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring
<input checked="" type="checkbox"/> Recordkeeping	<input checked="" type="checkbox"/> Reporting

## Basis of Compliance Method

<input checked="" type="checkbox"/> Applicable Requirements
<input type="checkbox"/> Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
	N.A.			,

## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded	Measurement Method	Frequency	Record Retention
1) coal input to boiler 2) sulfur content, ash content, and heating value of coal	1) record keeping log 2) coal delivery ticket	1) daily 2) each delivery	5 years

## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description	Pollutant(s) Being Monitored
Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement <i>coal usage and analysis reports</i>	Title of Report	Submittal Frequency <i>monthly</i>
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Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

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## COMPLIANCE DETERMINATION METHODS

FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. <i>CS-101-05</i> <i>CS-101-06</i>	Emission Unit No. <i>CS-101-05</i> <i>CS-101-06</i>	Applicable Requirement: <i>40 CFR Part 60, Subpart E</i>
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5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)		Basis of Compliance Method
Check the Applicable Method		
Testing	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Applicable Requirements
Recordkeeping	<input type="checkbox"/> Reporting	<input type="checkbox"/> Gap Filling

Testing		Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.	
Date	Test Method <i>N.A.</i>	Firm	Operating Conditions

Recordkeeping		List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.	
Parameter (data) Being Recorded <i>1) incinerator charging rate</i> <i>2) hours of operation</i>	Measurement Method <i>1) load counter</i> <i>2) record keeping log</i>	Frequency <i>daily</i>	Record Retention <i>5 years</i>

Monitoring		Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.	
Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description	Pollutant(s) Being Monitored	

Sampling Frequency		Duration of Sampling	How Data Will Be Reported
<i>-</i>			

Reporting		
Describe all reporting requirements and provide the title and frequency of report submittals to the agency.		
Reporting Requirement <i>No additional reporting required past initial performance test.</i>	Title of Report <i>N.A.</i>	Submittal Frequency <i>N.A.</i>

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

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## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. CS-101-05 CS-101-06	Emission Unit No. CS-101-05 CS-101-06	Applicable Requirement: 10 CSR 10-5.080		

## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

- Testing  
 Recordkeeping

- Monitoring  
 Reporting

Basis of Compliance Method

- Applicable Requirements  
 Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
4/12/84	EPA Test Method 5	Burns and McDonnell Engineering Co, Inc.	incinerator charge rate: 4,200 lb/hr	Average PM emission rate = 0.063 grains/dscf

## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded	Measurement Method	Frequency	Record Retention
N.A.			

## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type	Location Description	Pollutant(s) Being Monitored
N.A.		

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
None	-	N.A.

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <i>MC-STL-01</i>	Emission Unit No. <i>MC-STL-01</i>	Applicable Requirement: 40 CFR Part 63, Subpart GG: Applicable subsections of: 63.743, 63.746, 63.749, 63.750, 63.752 and 63.753 for Aerospace Depainting Operations		
<b>5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method		Basis of Compliance Method		
<input checked="" type="checkbox"/> Testing	Monitoring	<input checked="" type="checkbox"/> Applicable Requirements		
<input checked="" type="checkbox"/> Recordkeeping	Reporting	<input type="checkbox"/> Gap Filling		
<b>Testing</b>				
Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date -	Test Method <i>per the requirements of the applicable subsections of 63.750</i>	Firm <i>N.A.</i>	Operating Conditions <i>N.A.</i>	Summary of Results <i>N.A.</i>
<b>Recordkeeping</b>				
List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.752 for the compliance method chosen</i>	Measurement Method <i>as required by the applicable subsections of 63.752</i>	Frequency <i>as required by the applicable subsections of 63.752</i>	Record Retention <i>5 years</i>	
<b>Monitoring</b>				
Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>N.A.</i>	Location Description			Pollutant(s) Being Monitored
Sampling Frequency	Duration of Sampling	How Data Will Be Reported		
<b>Reporting</b>				
Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement <i>1) notification of compliance status 2) semiannual reports that identify requirements of the applicable subsections of 63.753 for the compliance method chosen 3) annual reports per the requirements of 63.753(d)(2) for any exceedance in the applicable limits</i>	Title of Report <i>1) Notification of Compliance Status Report 2) Semiannual Certification Report and Semiannual Exceedance Report (if any exceedances occur) 3) Exceedance Report</i>		Submittal Frequency <i>1) when source becomes subject to the rule 2) every six (6) months from the date of the notification of compliance status 3) every twelve (12) months from the date of the notification of compliance status</i>	

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <i>None</i>	Emission Unit No. <i>DP-STL-01</i>	Applicable Requirement: 40 CFR Part 63, Subpart GG: Applicable subsections of: 63.743, 63.746, 63.749, 63.751, 63.752, and 63.753 for Aerospace Depainting Operations		
<b>b. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Recordkeeping		✓ Monitoring <input checked="" type="checkbox"/> Reporting	Basis of Compliance Method <input checked="" type="checkbox"/> Applicable Requirements <input type="checkbox"/> Gap Filling	
<b>Testing</b> Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date -	Test Method <i>N.A.</i>	Firm <i>N.A.</i>	Operating Conditions <i>N.A.</i>	Summary of Results <i>N.A.</i>
<b>Recordkeeping</b> List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.752 for the compliance method chosen</i>	Measurement Method <i>as required by the applicable subsections of 63.752</i>		Frequency <i>as required by the applicable subsections of 63.752</i>	Record Retention <i>5 years</i>
<b>Monitoring</b> Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>per the requirements of the applicable subsections of 63.751 depending on the compliance method chosen</i>	Location Description		Pollutant(s) Being Monitored	
Sampling Frequency	Duration of Sampling	How Data Will Be Reported		
<b>Reporting</b> Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement 1) notification of compliance status 2) semiannual reports that identify requirements of the applicable subsections of 63.753 for the compliance method chosen 3) annual reports per the requirements of 63.753(d)(2) for any exceedance of the applicable limits	Title of Report 1) Notification of Compliance Status Report 2) Semiannual Certification Report and Semiannual Exceedance Report (if any exceedances occur) 3) Exceedance Report		Submittal Frequency 1) when source becomes subject to the rule 2) every six (6) months from the date of the notification of compliance status 3) every twelve (12) months from the date of the notification of compliance status	

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

FORM OP - D05	COMPLIANCE DETERMINATION METHODS			FEDERALLY ENFORCEABLE	
Facility Name McDonnell Douglas Corporation	County No.	4300	Plant No.	0230	Year Submitted 1997

Emission Point No. *None*

Emission Unit No.

*EG-STL-01*

Applicable Requirement:

*10 CSR 10-5.180*

## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

 Testing Monitoring Recordkeeping Reporting

Basis of Compliance Method

 Applicable Requirements Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
	<i>N.A.</i>			

## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded	Measurement Method	Frequency	Record Retention
<i>N.A.</i>			

## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type	Location Description	Pollutant(s) Being Monitored
<i>Agency inspection records</i>		<i>opacity</i>

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
<i>None</i>	<i>N.A.</i>	<i>N.A.</i>

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

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Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <i>None</i>	Emission Unit No. <i>HW-STL-01</i>	Applicable Requirement: 40 CFR Part 63, Subpart GG: Applicable subsections of: 63.743, 63.748, and 63.749 for Waste Handling		
<b>5. Compliance Demonstration Methods: (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method  <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Recordkeeping		Basis of Compliance Method  <input checked="" type="checkbox"/> Applicable Requirements <input type="checkbox"/> Gap Filling		
<b>Testing</b> Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results
<b>Recordkeeping</b> List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>per the requirements of 63.748</i>	Measurement Method <i>established work practices to handle and transfer waste in a manner which minimizes spills</i>	Frequency <i>as waste is handled and transferred</i>	Record Retention <i>N.A.</i>	
<b>Monitoring</b> Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>N.A.</i>	Location Description			Pollutant(s) Being Monitored
Sampling Frequency	Duration of Sampling	How Data Will Be Reported		
<b>Reporting</b> Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement <i>None</i>	Title of Report <i>-</i>		Submittal Frequency <i>N.A.</i>	

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

ORM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <i>None</i>	Emission Unit No. <i>MS-027-04</i>	<b>Applicable Requirement:</b> 40 CFR Part 63, Subpart DD: <i>Applicable subsections of: 63.683, 63.688, 63.696, 63.697</i> <i>Applicable subsections of Subpart A and Subpart PP</i>		

## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

- |   |  |
|---|--|
| <input type="checkbox"/> Testing                  | <input checked="" type="checkbox"/> Monitoring |
| <input checked="" type="checkbox"/> Recordkeeping | <input checked="" type="checkbox"/> Reporting  |

Basis of Compliance Method

- |   |
|---|
| <input checked="" type="checkbox"/> Applicable Requirements |
| <input type="checkbox"/> Gap Filling                        |

**Testing**

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results

**Recordkeeping**

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.696</i>	Measurement Method	Frequency	Record Retention <i>5 years</i>

**Monitoring**

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type <i>as identified in the applicable subsections of 63.926 (Subpart PP)</i>	Location Description	Pollutant(s) Being Monitored

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

**Reporting**

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement <i>per the requirements of the applicable subsections of 63.697</i>	Title of Report	Submittal Frequency <i>per the requirements of the applicable subsections of 63.697</i>

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

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Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <i>ML-051-01</i> <i>None</i>	Emission Unit No. <i>ML-051-01</i> <i>ML-051-02</i>	Applicable Requirement: <i>40 CFR Part 63, Subpart GG:</i> <i>Applicable subsections of: 63.743, 63.747, 63.749, 63.750, 63.752 and 63.753 for Aerospace Chemical Milling Maskant</i>		
<b>5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method		Basis of Compliance Method		
<input checked="" type="checkbox"/> Testing	<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Applicable Requirements		
<input checked="" type="checkbox"/> Recordkeeping	<input checked="" type="checkbox"/> Reporting	<input type="checkbox"/> Gap Filling		
<b>Testing</b>				
Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date	Test Method <i>per the requirements of the applicable subsections of 63.750 depending on the compliance method chosen</i>	Firm <i>N.A.</i>	Operating Conditions <i>N.A.</i>	Summary of Results <i>N.A.</i>
<b>Recordkeeping</b>				
List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.752 as appropriate for the compliance method chosen</i>	Measurement Method <i>as required by the applicable subsections of 63.752 for the compliance method chosen</i>	Frequency <i>as required by the applicable subsections of 63.752 for the compliance method chosen</i>	Record Retention <i>5 years</i>	
<b>Monitoring</b>				
Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>N.A.</i>	Location Description			Pollutant(s) Being Monitored
Sampling Frequency	Duration of	How Data Will Be Reported		
<b>Reporting</b>				
Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement <i>1) notification of compliance status</i>  <i>2) semiannual reports that identify requirements of the applicable subsections of 63.753 for the compliance method chosen</i>	Title of Report <i>1) Notification of Compliance Status Report</i> <i>2) Semiannual Report</i>		Submittal Frequency <i>1) when source becomes subject to the rule</i>  <i>2) every six (6) months from the date of the notification of compliance status</i>	
Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05				

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## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Year Submitted  
1997Facility Name  
McDonnell Douglas Corporation

County No.

4300

Plant No.

0230

Emission Point No. ML-051-01

Emission Unit No. CC-051-01  
CC-051-02Applicable Requirement: 40 CFR Part 63, Subpart T:  
Applicable subsections of: 63.460, 63.462, and 63.468  
40 CFR Part 63, Subpart A:  
Applicable subsections of 63.10

## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

 Testing Monitoring Recordkeeping Reporting

Basis of Compliance Method

 Applicable Requirements Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method N.A.	Firm	Operating Conditions	Summary of Results
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## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded <i>per the applicable subsections of 63.10</i>	Measurement Method <i>per the applicable subsections of 63.10</i>	Frequency <i>per the applicable subsections of 63.10</i>	Record Retention <i>5 years</i>
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## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type N.A.	Location Description	Pollutant(s) Being Monitored
Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement <i>per the applicable subsections of 63.468</i>	Title of Report	Submittal Frequency <i>per the applicable subsections of 63.468</i>
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Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

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CRM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. *None*Emission Unit No. *ML-051-02*Applicable Requirement: *10 CSR 10-5.330*

## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

 Testing Monitoring Recordkeeping Reporting

Basis of Compliance Method

 Applicable Requirements Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
	<i>N.A.</i>			

## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded	Measurement Method	Frequency	Record Retention
<i>as required by Section (6) of the rule</i>	<i>as required by Section (6) of the rule</i>	<i>as required by Section (6) of the rule</i>	<i>5 years</i>

## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type	Location Description	Pollutant(s) Being Monitored
<i>record keeping as identified in the above section</i>		

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
<i>None required. Records shall be made available upon agency request.</i>	<i>N.A.</i>	<i>N.A.</i>

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

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ORM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. <i>None</i>	Emission Unit No. <i>OV-220-11 OV-220-12, OV-220-13, OV-220-14</i>	Applicable Requirement: <i>10 CSR 10-5.050</i>
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## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method	Basis of Compliance Method
<input type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring
<input checked="" type="checkbox"/> Recordkeeping	<input type="checkbox"/> Reporting

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
	<i>N.A.</i>			

## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded	Measurement Method	Frequency	Record Retention
<i>material throughputs and PM emission rate</i>	<i>mass balance calculations using material throughputs and best engineering judgment on the PM emitted</i>	<i>annually (hourly rate back calculated from annual emission rate)</i>	<i>5 years</i>

## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type	Location Description	Pollutant(s) Being Monitored
<i>record keeping as identified in the above section</i>		

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
<i>None</i>	<i>N.A.</i>	<i>N.A.</i>

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

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## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. PT-027-05	Emission Unit No. PT-027-05A	Applicable Requirement: 40 CFR Part 63, Subpart N: Applicable subsections of: 63.340, 63.342, 63.343, 63.346 and 63.347	
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5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)		Basis of Compliance Method
Check the Applicable Method		Applicable Requirements

Testing

Testing	✓	Monitoring
Recordkeeping	✓	Reporting

✓	Gap Filling
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**Testing**

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
	N.A.			

**Recordkeeping**

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded <i>as identified in the applicable subsections of 63.346 and in McDonnell Douglas' Operation and Maintenance Plan</i>	Measurement Method <i>identified in the Operation and Maintenance Plan</i>	Frequency <i>varies, frequency is dependent on the occurrence of an event (i.e., malfunction, maintenance, etc.)</i>	Record Retention
			5 years

**Monitoring**

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type	Location Description	Pollutant(s) Being Monitored
Tensiometer	Bldg. 27, Process Control Lab	surface tension

Sampling Frequency <i>once per week, regardless of hours of operation</i>	Duration of Sampling <i>instantaneous (grab sample)</i>	How Data Will Be Reported <i>Tensiometer readings will be recorded in a computerized data collection log along with other pertinent information.</i>

**Reporting**

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
on-going compliance status	On-going Compliance Status Report	semiannually

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

MO 780-1519 (REV. April 11, 1996)

Duplicate this form as needed

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## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. SP-005-01

Emission Unit No.

SP-005-01

Applicable Requirement: 10 CSR 10-5.120

## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

- Testing  
 Recordkeeping

- Monitoring  
 Reporting

Basis of Compliance Method

- Applicable Requirements  
 Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method N.A.	Firm	Operating Conditions	Summary of Results

## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded coal tickets	Measurement Method Records of each coal delivery ticket will be kept on file.	Frequency each delivery	Record Retention 5 years

## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type record keeping as identified in the above section	Location Description	Pollutant(s) Being Monitored

## Sampling Frequency

## Duration of Sampling

## How Data Will Be Reported

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement None	Title of Report N.A.	Submittal Frequency N.A.

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

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DRM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Section D

Facility Name  
McDonnell Douglas Corporation

County No.

4300

Plant No.

0230

Year Submitted  
1997

Emission Point No.

None

Emission Unit No. ST-005-20,  
ST-005-21, ST-041-21 through ST-041-24,  
ST-102-21, ST-111-01

Applicable Requirement:  
*40 CFR Part 60, NSPS, Subpart Kb  
(Section 60.116b only)*

## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

 Testing Monitoring Recordkeeping Reporting

Basis of Compliance Method

 Applicable Requirements Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
	N.A.			

## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded	Measurement Method	Frequency	Record Retention
tank dimensions and calculated capacity	engineering measurements and calculations	one time determination	for the life of the tank

## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type	Location Description	Pollutant(s) Being Monitored
record keeping as identified in the above section		

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
No routine reporting. Records shall be made available upon agency request.	N.A.	N.A.

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

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## COMPLIANCE DETERMINATION METHODS

FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. ST-STL-01	Emission Unit No. ST-022-22 and ST-022-25	Applicable Requirement:  10 CSR 10-5.220, (5), (6), (8) (10), and (11)
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<b>5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>	
<b>Check the Applicable Method</b>	<b>Basis of Compliance Method</b>
<input checked="" type="checkbox"/> Testing <input checked="" type="checkbox"/> Recordkeeping	<input checked="" type="checkbox"/> Monitoring <input checked="" type="checkbox"/> Reporting
	<input checked="" type="checkbox"/> Applicable Requirements <input type="checkbox"/> Gap Filling

<b>Testing</b>	
Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.	

Date <i>to be performed in 1997</i>	Test Method <i>Director approved leak detection and blockage tests</i>	Firm <i>to be determined</i>	Operating Conditions <i>to be determined</i>	Summary of Results <i>to be determined</i>
--	---	---------------------------------	---	---

<b>Recordkeeping</b>	
List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.	

Parameter (data) Being Recorded <i>per the requirements of Sections (5)(D) and (11)(C)</i>	Measurement Method <i>Records of parameters required by Sections (5)(D) and (11)(C) shall be kept on file.</i>	Frequency <i>Records of parameters required by Sections (5)(D) and (11)(C) shall be kept on file as the information is received</i>	Record Retention <i>5 years</i>
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<b>Monitoring</b>		
Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.		
Monitoring Device Type <i>1) record keeping as identified in the above section 2) See note below.</i>	Location Description	Pollutant(s) Being

Sampling Frequency	Duration of Sampling	How Data Will Be Reported
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<b>Reporting</b>		
Describe all reporting requirements and provide the title and frequency of report submittals to the agency.		
Reporting Requirement <i>No routine reporting is required after obtaining or renewing an operating permit. Records shall be made available to the agency upon request.</i>	Title of Report <i>N.A.</i>	Submittal Frequency <i>renewal of operating permit once every five years</i>

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

MO 780-1519 (REV. April 11, 1996) Duplicate this form as needed Page D05F-64

Note: McDonnell Douglas shall perform the initial leak detection and blockage tests necessary to obtain a vapor recovery permit from MDNR. Additional testing and monitoring past the initial compliance demonstration will be performed by the agency annually (or at any other time at its discretion).

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## COMPLIANCE DETERMINATION METHODS

FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. ST-STL-01	Emission Unit No. ST-041-20	Applicable Requirement: <i>10 CSR 10-5.220, (5), (6), (8), (9),(10), and (11)</i>
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**5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)**

## Check the Applicable Method

<input checked="" type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring
<input checked="" type="checkbox"/> Recordkeeping	<input checked="" type="checkbox"/> Reporting

## Basis of Compliance Method

<input checked="" type="checkbox"/> Applicable Requirements
<input type="checkbox"/> Gap Filling

**Testing**

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date <i>to be performed in 1997</i>	Test Method <i>Director approved leak detection and blockage tests</i>	Firm <i>to be determined</i>	Operating Conditions <i>to be determined</i>	Summary of Results <i>to be determined</i>
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**Recordkeeping**

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded <i>per the requirements of Sections (5)(D) and (11)(C)</i>	Measurement Method <i>Records of parameters required by Sections (5)(D) and (11)(C) shall be kept on file.</i>	Frequency <i>Records of parameters required by Sections (5)(D) and (11)(C) shall be kept on file as the information is received.</i>	Record Retention <i>5 years</i>
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**Monitoring**

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type <i>1) record keeping as identified in the above section 2) See note below.</i>	Location Description	Pollutant(s) Being
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Sampling Frequency	Duration of Sampling	How Data Will Be Reported
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**Reporting**

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement <i>No routine reporting is required after obtaining or renewing an operating permit. Records shall be made available to the agency upon request.</i>	Title of Report <i>N.A.</i>	Submittal Frequency <i>renewal of operating permit once every five years</i>
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Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <b>ST-STL-01</b>	Emission Unit No. <b>ST-121-01</b>	Applicable Requirement: <b>10 CSR 10-5.220 (5)</b>		
<b>5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method		Basis of Compliance Method		
<input type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Applicable Requirements		
<input checked="" type="checkbox"/> Recordkeeping	<input type="checkbox"/> Reporting	<input type="checkbox"/> Gap Filling		
<b>Testing</b> Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results
<b>Recordkeeping</b> List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>per the requirements of Section (5)(D)</i>	Measurement Method <i>Keep records of vessel owner and deliveries on file.</i>	Frequency <i>as they occur</i>	Record Retention <i>5 years</i>	
<b>Monitoring</b> Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description			Pollutant(s) Being
Sampling Frequency	Duration of Sampling	How Data Will Be Reported		
<b>Reporting</b> Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement <i>No routine reporting is required. Records shall be made available to the agency upon request.</i>	Title of Report <i>N.A.</i>			Submittal Frequency <i>N.A.</i>
Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05				

FORM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No.	VD-027-01	Emission Unit No. VD-027-01	Applicable Requirement: <i>40 CFR Part 63, Subpart T: Applicable subsections of: 63.460, 63.463, 63.465, 63.466, 63.467 and 63.468</i>	
<b>6. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method		Basis of Compliance Method		
<input type="checkbox"/> Testing	✓	Monitoring	<input checked="" type="checkbox"/> Applicable Requirements	
<input checked="" type="checkbox"/> Recordkeeping	✓	Reporting	<input type="checkbox"/> Gap Filling	
<b>Testing</b>				
Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results
<b>Recordkeeping</b>				
List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.467</i>	Measurement Method <i>per the requirements of the applicable subsections of 63.467</i>		Frequency <i>per the requirements of the applicable subsections of 63.467</i>	Record Retention <i>5 years</i>
<b>Monitoring</b>				
Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>per the requirements of the applicable subsections of 63.466</i>	Location Description			Pollutant(s) Being
Sampling Frequency	Duration of Sampling		How Data Will Be Reported	
<b>Reporting</b>				
Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement 1) exceedance report 2) solvent emission or annual report (depending on compliance method chosen)	Title of Report 1) Exceedance Report 2) Solvent Emission or Annual Report		Submittal Frequency 1) semiannually 2) annually	
Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05				

FORM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No.	CC-STL-01	Emission Unit No. VD-042-01 VD-042-02	Applicable Requirement: 40 CFR Part 63, Subpart T: Applicable subsections of: 63.460, 63.463, 63.465, 63.466, 63.467 and 63.468	

## 6. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

Testing	<input checked="" type="checkbox"/>	Monitoring
Recordkeeping	<input checked="" type="checkbox"/>	Reporting

Basis of Compliance Method

<input checked="" type="checkbox"/> Applicable Requirements
<input type="checkbox"/> Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results

## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.467</i>	Measurement Method <i>per the requirements of the applicable subsections of 63.467</i>	Frequency <i>per the requirements of the applicable subsections of 63.467</i>	Record Retention <i>5 years</i>

## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type <i>per the requirements of the applicable subsections of 63.466</i>	Location Description	Pollutant(s) Being

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement <i>1) exceedance report 2) solvent emission report or annual report (depending on the compliance method chosen)</i>	Title of Report <i>1) Exceedance Report 2) Solvent Emission or Annual Report</i>	Submittal Frequency <i>1) semiannually 2) annually</i>

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

## FORM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

## Section D

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. *VD-029-01, VD-101-02, VD-102-01 and VD-220-01*      Emission Unit No. *VD-029-01, VD-101D-04, VD-102-01 and VD-220-01*      Applicable Requirement: *40 CFR Part 63, Subpart T: Applicable subsections of: 63.460, 63.464, 63.465, 63.467 and 63.468*

**5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)**

Check the Applicable Method

Testing  
 Recordkeeping

Monitoring  
 Reporting

Basis of Compliance Method

Applicable Requirements  
 Gap Filling

**Testing**

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results
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**Recordkeeping**

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded <i>solvent usage</i>	Measurement Method <i>1) Keep log of dates and amounts of solvent added and removed. 2) Keep calculation sheets showing how monthly and 3-month average emissions are determined.</i>	Frequency <i>monthly</i>	Record Retention <i>5 years</i>
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**Monitoring**

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type <i>N.A.</i>	Location Description	Pollutant(s) Being Monitored
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Sampling Frequency	Duration of Sampling	How Data Will Be Reported
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**Reporting**

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement <i>1) exceedance report 2) solvent emission report</i>	Title of Report <i>1) Exceedance Report 2) Solvent Emission Report</i>	Submittal Frequency <i>1) semiannually 2) annually</i>
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Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

FORM OP - D05

## COMPLIANCE DETERMINATION METHODS

FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <i>VD-101-01</i>	Emission Unit No. <i>VD-101-01</i>	Applicable Requirement: <i>40 CFR Part 63, Subpart T:</i> <i>Applicable subsections of: 63.460, 63.463, 63.465, 63.466, 63.467 and 63.468</i>		
<b>5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method		Basis of Compliance Method		
<input type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Applicable Requirements		
<input checked="" type="checkbox"/> Recordkeeping	<input checked="" type="checkbox"/> Reporting	<input type="checkbox"/> Gap Filling		
<b>Testing</b> Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results
<b>Recordkeeping</b> List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.467</i>	Measurement Method <i>per the requirements of the applicable subsections of 63.467</i>	Frequency <i>per the requirements of the applicable subsections of 63.467</i>	Record Retention <i>5 years</i>	
<b>Monitoring</b> Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>per the requirements of the applicable subsections of 63.466</i>	Location Description	Pollutant(s) Being Monitored		
Sampling Frequency	Duration of Sampling	How Data Will Be Reported		
<b>Reporting</b> Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement <i>1) exceedance report 2) solvent emission or annual report (depending on compliance method chosen)</i>	Title of Report <i>1) Exceedance Report 2) Solvent Emission or Annual Report</i>	Submittal Frequency <i>1) semiannually 2) annually</i>		

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

## FORM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE

## Section D

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <i>Vapor Degreasers, CC-STL-01, VD-027-01, VD-029-01, VD-101-01, VD-101-02, VD-102-01, VD-220-01</i>	Emission Unit No. <i>Vapor Degreasers, VD-042-01, VD-042-02, VD-027-01, VD-029-01, VD-101-01, VD-101D-04, VD-102-01, VD-220-01</i>	Applicable Requirement: <i>10 CSR 10-5.300</i>	

**5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)**

Check the Applicable Method

Testing  
 Recordkeeping

Monitoring  
 Reporting

Basis of Compliance Method

Applicable Requirements  
 Gap Filling

**Testing**

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
	N.A.			

**Recordkeeping**

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded	Measurement Method	Frequency	Record Retention
1) solvent types and purchases	1) Keep records of solvent types and purchases.	1) monthly	1) 5 years
2) solvent consumptions and wastes generated	2) Keep records of solvent consumptions and waste generated.	2) as they occur	2) 5 years
3) maintenance and repair logs	3) Keep records of maintenance and repair logs.	3) as they occur	3) 5 years
4) operator training	4) Conduct and keep records of training for degreaser operators and their supervisors.	4) once per year	4) 5 years

**Monitoring**

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description	Pollutant(s) Being Monitored

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

**Reporting**

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
No routine reporting. Records available upon agency request.	N.A.	N.A.

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

FORM OP - D05

## COMPLIANCE DETERMINATION METHODS

FEDERALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <b>VD-029-01</b>	Emission Unit No. <b>VD-029-01</b>	Applicable Requirement: <i>10 CSR 10-6.060 and St. Louis County-APC Code, Chapter 612-Section 612.110, Construction Permit #6258</i>		
<b>5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method		Basis of Compliance Method		
<input type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Applicable Requirements		
<input checked="" type="checkbox"/> Recordkeeping	<input checked="" type="checkbox"/> Reporting	<input type="checkbox"/> Gap Filling		
<b>Testing:</b> Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary results.				
Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results
<b>Recordkeeping:</b> List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>solvent usage</i>	Measurement Method <i>record keeping log</i>		Frequency <i>monthly</i>	Record Retention <i>5 years</i>
<b>Monitoring:</b> Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description		Pollutant(s) Being Monitored	
Sampling Frequency	Duration of Sampling	How Data Will Be Reported		
<b>Reporting:</b> Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement 1) <i>usage exceedances</i> 2) <i>monthly solvent usage</i>	Title of Report -		Submittal Frequency 1) <i>by the next working day after occurrence</i> 2) <i>upon agency request</i>	
Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05				

CRM OP	5	COMPLIANCE DETERMINATION METHOD		FEDERALLY ENFORCEABLE-ALT. OP SCENARIO			Section D
Facility Name McDonnell Douglas Corporation			County No.	4300	Plant No.	0230	Year Submitted 1997
Emission Point No. CC-STL-01		Emission Unit No. CC-032-02, CC-032-03 and CC-245-04	Applicable Requirement: 10 CSR 10-5.300				
<b>II. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>							
Check the Applicable Method				Basis of Compliance Method			
Testing		<input checked="" type="checkbox"/> Monitoring	<input type="checkbox"/> Reporting	Applicable Requirements			
Recordkeeping		<input checked="" type="checkbox"/> Gap Filling	<input type="checkbox"/>				
<b>Testing</b>							
Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.							
Date	Test Method N.A.	Firm	Operating Conditions		Summary of Results		
<b>Recordkeeping</b>							
List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.							
Parameter (data) Being Recorded		Measurement Method			Frequency	Record Retention	
1) solvent types and purchases		1) Records shall be kept of solvent types and purchases.			1) monthly	1) 5 years	
2) solvent consumptions and wastes generated		2) Records shall be kept of solvent consumptions and waste generated.			2) as they occur	2) 5 years	
3) maintenance and repair logs		3) Records shall be kept of maintenance and repair logs.			3) as they occur	3) 5 years	
4) operator training		4) Conduct and keep records of training for degreaser operators and their supervisors.			4) once per year	4) 5 years	
<b>Monitoring</b>							
Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.							
Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description				Pollutant(s) Being Monitored		
Sampling Frequency	Duration of Sampling		How Data Will Be Reported				
<b>Reporting</b>							
Describe all reporting requirements and provide the title and frequency of report submittals to the agency.							
Reporting Requirement <i>No routine reporting. Records available upon agency request.</i>	Title of Report N.A.			Submittal Frequency N.A.			
Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05							



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## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE-ALT. OP. SCENARIO

action D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No.	None	Emission Unit No. <i>SB-101-34, SB-101-48, and SB-220-02</i>	Applicable Requirement: 40 CFR Part 63, Subpart GG: Applicable subsections of: 63.743, 63.745, 63.749, 63.750, 63.751, 63.752, and 63.753	

## i. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

- Testing  
 Recordkeeping

- Monitoring  
 Reporting

Basis of Compliance Method

- Applicable Requirements  
 Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method <i>per the requirements of the applicable subsections of 63.750</i>	Firm N.A.	Operating Conditions N.A.	Summary of Results N.A.
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## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.752 depending on the compliance method chosen</i>	Measurement Method <i>as required by the applicable subsections of 63.752 for the compliance method chosen</i>	Frequency <i>as required by the applicable subsections of 63.752 for the compliance method chosen</i>	Record Retention 5 years
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## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type <i>per the requirements of the applicable subsections of 63.751 depending on the compliance method chosen</i>	Location Description	Pollutant(s) Being
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## Sampling Frequency

## Duration of Sampling

## How Data Will Be Reported

## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
1) notification of compliance status	1) Notification of Compliance Status Report	1) when source becomes subject to the rule
2) semiannual reports that identify requirements of the applicable subsections of 63.753 for the compliance method chosen	2) Semiannual Certification Report and Semiannual Exceedance Report (if any exceedances occur)	2) every six (6) months from the date of the notification of compliance status
3) annual reports per the requirements of 63.753(c)(2) for any exceedance of the applicable limits	3) Exceedance Report	3) every twelve (12) months from the date of the notification of compliance status

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
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Emission Point No. <i>None</i>	Emission Unit No. <i>SB-101-34, SB-101-48, and SB-220-02</i>	Applicable Requirement: <i>10 CSR 10-5.330</i>		
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**5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)**

Check the Applicable Method

Basis of Compliance Method

<input type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring
<input checked="" type="checkbox"/> Recordkeeping	<input type="checkbox"/> Reporting

<input checked="" type="checkbox"/> Applicable Requirements
<input type="checkbox"/> Gap Filling

**Testing**

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method	Firm	Operating Conditions	Summary of Results
	<i>N.A.</i>			

**Recordkeeping**

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded	Measurement Method	Frequency	Record Retention
<i>as required by Section (6) of the rule</i>	<i>as required by Section (6) of the rule</i>	<i>as required by Section (6) of the rule</i>	<i>5 years</i>

**Monitoring**

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type	Location Description	Pollutant(s) Being Monitored
<i>record keeping as identified in the above section</i>		

Sampling Frequency	Duration of Sampling	How Data Will Be Reported

**Reporting**

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement	Title of Report	Submittal Frequency
<i>None required. Records shall be made available upon agency request.</i>	<i>N.A.</i>	<i>N.A.</i>

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

ORM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE-ALT. OP. SCENARIO

Section D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 2300	Year Submitted 1997
Emission Point No. <i>See Table D05-1A (attached)</i>	Emission Unit No. <i>See Table D05-1A (attached)</i>	Applicable Requirement: 40 CFR Part 63, Subpart GG, 63.743(d)		
<b>Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method		Basis of Compliance Method		
<input type="checkbox"/> Testing	<input type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Applicable Requirements		
<input checked="" type="checkbox"/> Recordkeeping	<input type="checkbox"/> Reporting	<input type="checkbox"/> Gap Filling		
<b>Testing</b> Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date	Test Method N.A.	Firm	Operating Conditions	Summary of Results
<b>Recordkeeping</b> List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>organic HAP and VOC content of the combination of primers, topcoats, or chemical milling maskants</i>	Measurement Method <i>Determine organic HAP and VOC limit by monthly volume-weighted average calculations.</i>		Frequency <i>monthly</i>	Record Retention <i>5 years</i>
<b>Monitoring</b> Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type N.A.	Location Description			Pollutant(s) Being Monitored
Sampling Frequency	Duration of Sampling	How Data Will Be Reported		
<b>Reporting</b> Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement N.A.	Title of Report N.A.		Submittal Frequency N.A.	

Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

**MCDONNELL DOUGLAS CORPORATION**

St. Louis, Missouri

Tracts I and II

**Table D05-1A: Alternate Operating Scenario for Coating Lines and Maskant Lines  
(Aerospace Production)**

EIQ Emission Point No.	Emission Unit No.	Description	Manufacturer/Model No./ Date of Manufacture	Stack No.
CL-002-01	SB-002-01	Spray Booth (Aerospace Production)	Unknown	SB002-01
CL-002-02	SB-002-06	Spray Booth (Aerospace Production)	Unknown	SB002-06
CL-027-01	SB-027-01	Spray Booth (Aerospace Production)	Unknown	SB027-01
CL-027-01	SB-027-02	Spray Booth (Aerospace Production)	Unknown	SB027-01A
CL-027-01	SB-027-03	Spray Booth (Aerospace Production)	Unknown	SB027-01B
CL-027-01	SB-027-04	Spray Booth (Aerospace Production)	Unknown	SB027-02
CL-027-01	SB-027-05	Spray Booth (Aerospace Production)	Unknown	SB027-02A
CL-029-01	CL-029-01	Spray Booth (Aerospace Production) (Adhesive Bonding Primers & Specialty Coatings)	Unknown	CL029-01
CL-029-02	SB-029A-01	Spray Booth (Aerospace Production & QA/QC)	Unknown	SB029A-01
CL-048-01	SB-048-01	Spray Booth (Aerospace Production)	Unknown	SB048-01
CL-048-01	SB-048-02	Spray Booth (Aerospace Production)	Unknown	SB048-01A
CL-048-01	SB-048-03	Spray Booth (Aerospace Production)	Unknown	SB048-01B
CL-048-01	SB-048-04	Spray Booth (Aerospace Production)	Unknown	SB048-01C
CL-048-01	SB-048-05	Spray Booth (Aerospace Production)	Unknown	SB048-02
CL-048-01	SB-048-06	Spray Booth (Aerospace Production)	Unknown	SB048-02A
CL-048-01	SB-048-07	Spray Booth (Aerospace Production)	Unknown	SB048-02B
CL-048-01	SB-048-08	Spray Booth (Aerospace Production)	Unknown	SB048-02C
CL-060-01	SB-060-01	Spray Booth (Aerospace Production Using Aerosol Cans))	Unknown	SB060-01
CL-063-01	SB-063-01	Spray Booth (Aerospace Production)	Unknown	SB063-01
CL-066-01	SB-066-01	Spray Booth (Aerospace Production)	Unknown	SB066-02
CL-066-02	SB-066-02	Spray Booth (Research & Development)	Unknown	SB066-01
CL-101-01	SB-101-01	Spray Booth (Aerospace Production) (Specialty Coatings Only)	Unknown	SB101-01
CL-101-01	SB-101-25	Spray Booth (Aerospace Production)	Unknown	SB101-01
CL-101-01	SB-101-26	Spray Booth (Aerospace Production)	Unknown	SB101-26
CL-101-01	SB-101-27	Spray Booth (Aerospace Production)	Unknown	SB101-27

**MCDONNELL DOUGLAS CORPORATION**

St. Louis, Missouri

Tracts I and II

**Table D05-1A: Alternate Operating Scenario for Coating Lines and Maskant Lines  
(Aerospace Production)**

EIQ Emission Point No.	Emission Unit No.	Description	Manufacturer/Model No./ Date of Manufacture	Stack No.
CL-101-01	SB-101-29	Bench Spray Hood (Aerospace Production)	Unknown	SB101-29
CL-101-01	SB-101-30	Spray Booth (Aerospace Production)	Unknown	SB101-30
CL-101-01	SB-101-39	Spray Booth (Aerospace Production)	Unknown	SB101-39A
CL-101-01	SB-101-44	Spray Booth (Research & Development)	Unknown	SB101-44
CL-101-02	SB-101-02	Spray Booth (Aerospace Production and Research & Development Activities)	Unknown	SB101-02
CL-101-02	SB-101-33	Spray Booth (Aerospace Production and Research & Development Activities)	Unknown	SB101-33
CL-101-02	SB-101-40	Spray Booth (Aerospace Production)	Unknown	SB101-40
CL-101-02	SB-101-40A	Spray Booth (Aerospace Production)	Unknown	SB101-40A
CL-101-03	SB-101-04	Spray Booth (Periodic Aerospace Production and Research and Development)	Unknown	SB101-45A
CL-101-03	SB-101-41	Spray Booth (Research & Development)	Unknown	SB101-41
CL-101-03	SB-101-06	Spray Booth (Mock-up and Tooling, Periodic Aerospace Production)	Unknown	SB101-45B
CL-101-03	SB-101-43	Spray Booth (Research & Development)	Unknown	SB101-43
CL-101-03	SB-101-35	Spray Booth (Research & Development)	Unknown	SB101-35
CL-101-03	SB-101-45	Spray Booth (Research & Development)	Unknown	SB101-45
CL-102-01	SB-102-01	Spray Booth (Research & Development)	Unknown	SB102-01
CL-102-01	SB-102-03	Spray Booth (Aerospace Production)	Unknown	SB102-03
CL-220-01	SB-220-01	Spray Booth (Aerospace Production) (Adhesive Bonding Primers & Specialty Coatings)	Unknown	SB220-01
CL-248-01	SB-248-01	Spray Booth (Research & Development)	Unknown	SB248-01
NONE	SB-101-10	Spray Booth (Research & Development)	Unknown	SB101-10
BF-STL-01	BF-STL-01	Facility-Wide Painting Operations (Aerospace Production)  (Note: This emission point includes painting operations which are directly related to aerospace production, but are performed outside of a spray booth.)	Unknown	None
ML-051-01	ML-051-01	Maskant Line (Perchloroethylene)	Baron-Blakeslee CAH 6 12-3T-SP, 1982	S-5137
None	ML-051-02	Maskant Line (Waterbased)	Unknown	S-051-02

FORM OP 05		COMPLIANCE DETERMINATION METHOD		FEDERALLY ENFORCEABLE-ALT. OP. SCENARIO		Section D	
Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997			
Emission Point No. ML-051-01	Emission Unit No. ML-051-01	Applicable Requirement: 40 CFR Part 63, Subpart GG: Applicable subsections of: 63.743, 63.747, 63.749, 63.750, 63.752, and 63.753					
<b>5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>							
Check the Applicable Method		Basis of Compliance Method					
<input checked="" type="checkbox"/> Testing <input checked="" type="checkbox"/> Recordkeeping		<input checked="" type="checkbox"/> Monitoring <input checked="" type="checkbox"/> Reporting					<input checked="" type="checkbox"/> Applicable Requirements <input type="checkbox"/> Gap Filling
<b>Testing</b>							
Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.							
Date -	Test Method <i>per the requirements of the applicable subsections of 63.750 depending on the compliance method chosen</i>	Firm N.A.	Operating Conditions N.A.	Summary of Results N.A.			
<b>Recordkeeping</b>							
List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.							
Parameter (data) Being Recorded <i>per the requirements of the applicable subsections of 63.752 as appropriate for the compliance method chosen</i>	Measurement Method <i>as required by the applicable subsections of 63.752</i>	Frequency <i>as required by the applicable subsections of 63.752</i>	Record Retention 5 years				
<b>Monitoring</b>							
Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.							
Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description			Pollutant(s) Being Monitored			
Sampling Frequency	Duration of Sampling		How Data Will Be Reported				
<b>Reporting</b>							
Describe all reporting requirements and provide the title and frequency of report submittals to the agency.							
Reporting Requirement 1) notification of compliance status 2) semiannual reports that identify requirements of the applicable subsections of 63.753 for the compliance method chosen	Title of Report 1) Notification of Compliance Status Report 2) Semiannual Report			Submittal Frequency 1) when source becomes subject to the rule 2) every six (6) months from the date of the notification of compliance status			
Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05							
MO 780-1519 (REV. April 11, 1996)				Duplicate this form as needed			Page D05A-7

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE-ALT. OP. SCENARIO

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <b>ML-051-01</b>	Emission Unit No. <b>ML-051-01</b>	Applicable Requirement: <b>10 CSR 10-5.330</b>		
<b>5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)</b>				
Check the Applicable Method		Basis of Compliance Method		
<input checked="" type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring	<input checked="" type="checkbox"/> Applicable Requirements		
<input checked="" type="checkbox"/> Recordkeeping	<input type="checkbox"/> Reporting	<input type="checkbox"/> Gap Filling		
<b>Testing</b> Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.				
Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results
<b>Recordkeeping</b> List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.				
Parameter (data) Being Recorded <i>as required by Section (6) of the rule</i>	Measurement Method <i>as required by Section (6) of the rule</i>	Frequency <i>as required by Section (6) of the rule</i>	Record Retention <i>5 years</i>	
<b>Monitoring</b> Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.				
Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description			Pollutant(s) Being Monitored
Sampling Frequency	Duration of Sampling	How Data Will Be Reported		
<b>Reporting</b> Describe all reporting requirements and provide the title and frequency of report submittals to the agency.				
Reporting Requirement <i>None required. Records shall be made available upon agency request.</i>	Title of Report <i>N.A.</i>		Submittal Frequency <i>N.A.</i>	
Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05				

FORM OP - D05

## COMPLIANCE DETERMINATION METHODS

## FEDERALLY ENFORCEABLE-ALT. OP. SCENARIO

Section D

Facility Name McDonnell Douglas Corporation	County No. 4300	Plant No. 0230	Year Submitted 1997
Emission Point No. <i>None</i>	Emission Unit No. <i>ST-120-01 and ST-120-02</i>	Applicable Requirement: <i>40 CFR Part 60, NSPS, Subpart Kb (Section 60.116b only)</i>	

## 5. Compliance Demonstration Methods (Testing, Monitoring, Recordkeeping, Reporting, etc.)

Check the Applicable Method

<input type="checkbox"/> Testing	<input checked="" type="checkbox"/> Monitoring
<input checked="" type="checkbox"/> Recordkeeping	<input type="checkbox"/> Reporting

Basis of Compliance Method

<input checked="" type="checkbox"/> Applicable Requirements
<input type="checkbox"/> Gap Filling

## Testing

Describe any tests which have been performed to quantify emissions. Include the date of the test, methods and procedures used, testing company, operating conditions existing during the test and summary of results.

Date	Test Method <i>N.A.</i>	Firm	Operating Conditions	Summary of Results
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## Recordkeeping

List parameters for which records are being maintained, the frequency of such records (hourly, daily, etc.) And the length of time records are retained from the date of entry. For each recorded parameter include the method of measurement.

Parameter (data) Being Recorded <i>tank dimensions and calculated capacity</i>	Measurement Method <i>engineering measurements and calculations</i>	Frequency <i>one time determination</i>	Record Retention <i>for the life of the tank</i>
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## Monitoring

Describe any emission monitoring used, location of monitor, pollutants being monitored, sampling frequency and duration, and data reporting method.

Monitoring Device Type <i>record keeping as identified in the above section</i>	Location Description	Pollutant(s) Being Monitored
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Sampling Frequency	Duration of Sampling	How Data Will Be Reported
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## Reporting

Describe all reporting requirements and provide the title and frequency of report submittals to the agency.

Reporting Requirement <i>No routine reporting. Records shall be made available upon agency request.</i>	Title of Report <i>N.A.</i>	Submittal Frequency <i>N.A.</i>
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Attach description for any Alternate Compliance Demonstration Methods not listed above and label as EXHIBIT FORM OP - D05

Duplicate this form as needed

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**Use FORM QP - D05 for any specific Compliance Determination Method applicable to the Emission Unit.**

You must attach a completed FORM OP - E01 , "Compliance Plan/Status" if the Emission Unit is currently failing to meet any Applicable Requirements, FORM OP- E01 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.

**Facility Name**

**McDonnell Douglas Corporation**

**County No.**

4300

Plant No.

0230

**Year Submitted**

1997

**4. Applicable Requirements (federal, state and local regulations plus any federally enforceable permit conditions)**

#### **II. FORM OF D-95 for any specific Compliance Determination Method applicable to the Emission Unit.**

Use FORM OP - D05 for any specific Compliance Determination Method applicable to the Emission Unit. You must attach a completed FORM OP - E01 , "Compliance Plan/Status" if the Emission Unit is currently failing to meet any Applicable Requirements, FORM OP- E01 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.

## APPLICABLE REQUIREMENTS

## STATE AND LOCALLY ENFORCEABLE

Section D

Facility Name McDonnell Douglas Corporation		County No. 4300	Plant No. 0230	Year Submitted 1997
<b>Applicable Requirements (federal, state and local regulations plus any federally enforceable permit conditions)</b>				
Emission Point/Unit	Pollutant	Applicable Requirement Authority (CSR#, CFR#, Permit No., etc.)	Emission Limit or Standard and Units	Compliance Determination Method (Testing, Monitoring, etc.)
Plant-wide	*	10 CSR 10-6.050  Start-up, Shutdown, and Malfunction Conditions	Facility is required to submit information regarding an upset/malfunction condition upon receipt of a notice for excess emissions from MDNR.	McDonnell Douglas Corporation shall provide the information requested in Section (1)(B) of the rule within 15 days of receiving an emission excess notice from MDNR.
Plant-wide	*	St. Louis County  Department of Health-Air Pollution Control Code - Chapter 612, Section 612.310  Upset Conditions, scheduled Breakdown, or Scheduled Maintenance  (locally enforceable only)	Requires facility to report unavoidable upset or breakdown of equipment within 24 hours of an occurrence of excess emissions. Maintenance shutdowns causing excess emissions are to be reported within 24 hours in advance.  Facility is required to submit a report of such occurrences including a statement of known causes and measures taken to prevent them in the future.	Procedures are in place that enable the appropriate McDonnell Douglas personnel to be informed of any maintenance, upset, or breakdown conditions. McDonnell Douglas shall submit notification to St. Louis County within the time frames of this rule.

Use FORM OP - D05 for any specific Compliance Determination Method applicable to the Emission Unit. You must attach a completed FORM OP - E01 , "Compliance Plan/Status" if the Emission Unit is currently failing to meet any Applicable Requirements, FORM OP- E01 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.

Use FORM OP - D05 for any specific Compliance Determination Method applicable to the Emission Unit. You must attach a completed FORM OP - E01 , "Compliance Plan/Status" if the Emission Unit is currently failing to meet any Applicable Requirements, FORM OP - E01 delineates what provisions are not being met and what steps will be taken to bring the Unit back into compliance.